Experiment # 6:

Film Screen Contact

 Objective:

 To demonstrate the loss of recorded detail due to improper film screen contact.

 Procedure:

 We will use a hand phantom ,a 24X18 cassette and 4 small objects (e.g. a nickel)

 Film 1:

 1- Place the hand phantom in PA position on the cassette

 2- Center the X-ray beam to the hand and collimate it to the area of interest.

 3- Expose using the following factors: Kv=45 mAs=2.5

 4- process the film

 Film 2:

 1- Open the cassette and place the small 4 objects on the screen 3 inches

 in from the corners.

 2- Place the film on the objects.

 3- Close the cassette.

 4- Place the hand phantom in PA position on the cassette

 5- Center the X-ray beam to the hand and collimate it to the area of interest.

 6- Expose using the following factors: Kv=45 mAs=2.5

 7- process the film

 Film 1:

 1- Good film-screen contact

 2- Sharp image

 3- High resolution ( good details)

 Film 2:

 1- poor film-screen contact

 2- unsharp image (blurred)

 3- bad resolution ( poor details)